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NEW MEXICO ENVIRONMENT DEPARTMENT

Ground Water Quality Bureau

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James C. Kenney
Cabinet Secretary

Jennifer J. Pruett
Deputy Secretary

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

December 29, 2020

Joey Cupp, Director, Environmental Travel Pilot Centers, LLC 5508 Lonas Drive Knoxville, TN 37909

RE: Draft Discharge Permit, DP-1921, Pilot Travel Center #1106 Albuquerque

Dear Mr. Cupp:

The New Mexico Environment Department (NMED) hereby provides notice to Travel Centers, LLC of the proposed approval of Ground Water Discharge Permit, DP-1921, (copy enclosed), pursuant to Subsection H of 20.6.2.3108 NMAC. NMED will publish notice of the availability of the draft Discharge Permit in the near future for public review and comment and will forward a copy of that notice to you.

Prior to making a final ruling on the proposed Discharge Permit, NMED will allow 30 days from the date the public notice is published in the newspaper for any interested party, including the Discharge Permit applicant, i.e., yourself, to submit written comments and/or a request a public hearing. A hearing request shall set forth the reasons why a hearing is requested. NMED will hold a hearing in response to a timely hearing request if the NMED Secretary determines there is substantial public interest in the proposed Discharge Permit.

Please review the enclosed draft Discharge Permit carefully. Please be aware that this Discharge Permit may contain conditions that require the permittee to implement operational, monitoring or closure actions by a specified deadline.

NMED is taking all necessary precautions to reduce the spread of COVID-19. Given the current public health emergency, all monitoring and permit required activities must by conducted in accordance with the Governor's current Executive Orders and Public Health Orders. Please help to keep New Mexicans safe by visiting the New Mexico Department of Health's website to learn

Joey Cupp December 29, 2020 Page 2 of 2

how you can play a role in stopping the spread of COVID-19. That website is cv.nmhealth.org. If you believe the current COVID-19 restrictions impact your ability to safely complete one or more permit required tasks, please include this information with your submittals.

Please submit written comments or a request for hearing to my attention at the address above or via email to avery.young@state.nm.us. If NMED does not receive written comments or a request for hearing during the public comment period, the draft Discharge Permit will become final.

Thank you for your cooperation during the review process. Feel free to contact me with any questions at (505) 699-8564.

Sincerely,

Avery Young Environmental Scientist

Encl: Draft Discharge Permit, DP-1921

cc: Kent Anderson, P.E., Broadbent & Associates, Inc., kanderson@broadbentinc.com Ronald Bohannan, P.E., Tierra West, LLC, rrb@tierrawestllc.com Bill Baker, Wastewater operator, bill@nm-h2o.com



NEW MEXICO ENVIRONMENT DEPARTMENT

Ground Water Quality Bureau





Draft: December 29, 2020

GROUND WATER QUALITY BUREAU DISCHARGE PERMIT Issued under 20.6.2 NMAC

Facility Name:	Pilot Travel Center #1106 Albuquerque
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Discharge Permit Number: DP-1921

Facility Location: 9220 Broadway Blvd SE

Albuquerque, NM

County: Bernalillo

Permittee: Travel Pilot Centers LLC

Mailing Address: Joey Cupp, Director, Environmental

5508 Lonas Drive Knoxville, TN 37909

Facility Contact: Michael J. Beach

Telephone Number/Email: (830) 816-5434/mbeach@broadbentinc.com

Permitting Action: New

Permit Issuance Date: DATE

Permit Expiration Date: DATE (7 years from issuance date) or 5 years from

commencement of discharge [20.6.2.3109.H(4) NMAC]

NMED Permit Contact: Avery Young

Telephone Number/Email: (505) 699-8564/avery.young@state.nm.us

MICHELLE HUNTER Date

Chief, Ground Water Quality Bureau New Mexico Environment Department

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ATTACHMENTS

Discharge Permit Summary

New Mexico Environment Department Ground Water Quality Bureau Monitoring Well Construction and Abandonment Guidelines, Revision 1.1, March 2011 (Monitoring Well Guidance)

I. INTRODUCTION

The New Mexico Environment Department (NMED) issues this groundwater discharge permit (Discharge Permit or DP-1921) to the Pilot Travel Centers, LLC (Permittee) pursuant to the New Mexico Water Quality Act (WQA), NMSA 1978 §§74-6-1 through 74-6-17, and the New Mexico Water Quality Control Commission (WQCC) Ground and Surface Water Protection Regulations, 20.6.2 NMAC.

NMED's purpose in issuing this Discharge Permit, and in imposing the requirements and conditions specified herein, is to control the discharge of water contaminants from Pilot Travel Center #1106 Albuquerque (Facility) in order to protect groundwater and those segments of surface water gaining from groundwater inflow for present and potential future use as domestic and agricultural water supply and other uses, and to protect public health. It is NMED's determination in issuing this Discharge Permit that the Permittee has met the requirements of Subsection C of 20.6.2.3109 NMAC. The Permittee is responsible for complying with the terms and conditions of this Discharge Permit pursuant to Section 20.6.2.3104 NMAC; failure to do so may result in enforcement action by NMED (20.6.2.1220 NMAC).

Described below are the activities that produce the discharge, the location of the discharge, and the quantity, quality and flow characteristics.

A package plant (WWTP) receives and treats domestic wastewater at a volume of up to 10,000 gallons per day (gpd). A holding tank stores treated wastewater prior to discharging to either two leachfields or to a subsurface irrigation system. In addition, the Permittee utilizes two grease interceptors for wastewater from the Facility prior to discharging it to the package plant.

The discharge may contain water contaminants or toxic pollutants elevated above the standards of Section 20.6.2.3103 NMAC and is not subject to the exemption at Subsection 20.6.2.3105.A NMAC.

The Facility is located at the intersection of Broadway Blvd and I-25, Albuquerque, in Section 31, Township 09N, Range 03E, in Bernalillo County. A discharge at the Facility is most likely to affect groundwater at a depth of approximately 104 feet and having a pre-discharge total dissolved solids (TDS) concentration of approximately 344 milligrams per liter.

The application (i.e., discharge plan) consists of the materials submitted by the Permittee dated October 5, 2020 and materials contained in the administrative record prior to issuance of this Discharge Permit. The Permittee shall manage this discharge in accordance with all conditions and requirements of this Discharge Permit.

NMED reserves the right to require a Discharge Permit modification in the event NMED determines that the Permittee is or may be violating, or is likely to violate in the future, the requirements of 20.6.2 NMAC or the standards of Section 20.6.2.3103 NMAC. NMED reserves this right pursuant to Section 20.6.2.3109 NMAC. An NMED requirement to modify the Discharge Permit may result from a determination by the department that structural controls and/or management practices approved under this Discharge Permit are insufficiently protective of groundwater quality and human health. NMED reserves the right to require the Permittee implement abatement of water pollution and remediate groundwater quality.

NMED issuance of this Discharge Permit does not relieve the Permittee of the responsibility to comply with the WQA, WQCC Regulations, and any other applicable federal, state and/or local laws and regulations, such as zoning requirements and nuisance ordinances.

This Discharge Permit may use the following acronyms and abbreviations.

Abbreviation	Explanation	Abbreviation	Explanation
BOD ₅	biochemical oxygen demand	NMSA	New Mexico Statutes
	(5-day)		Annotated
CFR	Code of Federal Regulations	NO ₃ -N	nitrate-nitrogen
CFU	colony forming unit	NTU	nephelometric turbidity units
Cl	chloride	QA/QC	Quality Assurance/Quality
			Control
EPA	United States Environmental	TDS	total dissolved solids
	Protection Agency		
gpd	gallons per day	TKN	total Kjeldahl nitrogen
LAA	land application area	total nitrogen	= TKN + NO ₃ -N
LADS	Land Application Data Sheet(s)	TRC	total residual chlorine
mg/L	milligrams per liter	TSS	total suspended solids
mL	milliliters	WQA	New Mexico Water Quality
			Act
MPN	most probable number	WQCC	Water Quality Control
			Commission
NMAC	New Mexico Administrative	WWTF	Wastewater Treatment
	Code		Facility
NMED	New Mexico Environment		
	Department		

II. FINDINGS

In issuing this Discharge Permit, NMED finds the following.

1. The Permittee is discharging effluent or leachate from the Facility so that such effluent or leachate may move into groundwater of the State of New Mexico that has an existing concentration of 10,000 mg/L or less of TDS, within the meaning of Subsection A of

20.6.2.3101 NMAC, without exceeding standards of 20.6.2.3103 NMAC for any water contaminant.

- 2. The Permittee is allowed to discharge effluent or leachate from the Facility directly or indirectly into groundwater pursuant to this Discharge Permit and Sections 20.6.2.3000 through 20.6.2.3114 NMAC.
- 3. The discharge from the Facility is not subject to any of the exemptions of Section 20.6.2.3105 NMAC.

III. AUTHORIZATION TO DISCHARGE

The Permittee is responsible for ensuring that discharges authorized by this Discharge Permit are consistent with the terms and conditions herein pursuant to 20.6.2.3104 NMAC.

This Discharge Permit authorizes the Permittee to receive and treat up to 10,000 gpd of domestic wastewater using a package plant (WWTP). This Discharge Permit also authorizes the Permittee to store treated wastewater in a holding tank prior to discharging treated wastewater to either two leachfields or to a subsurface irrigation system. This Discharge Permit also authorizes the Permittee to utilize two grease interceptors for wastewater from the Facility prior to discharging it to the package plant.

[20.6.2.3104 NMAC, Subsection C of 20.6.2.3106 NMAC, Subsection D of 20.6.2.3109 NMAC]

IV. CONDITIONS

NMED issues this Discharge Permit for the discharge of water contaminants subject to the following conditions.

A. OPERATIONAL PLAN

#	Terms and Conditions	
1.	The Permittee shall implement the following operational plan to ensure compliance wit Title 20, Chapter 6, Parts 2 and 4 NMAC.	
	[Subsection C of 20.6.2.3109 NMAC]	
2.	The Permittee shall operate in a manner that does not violate standards and requirements of Sections 20.6.2.3101 and 20.6.2.3103 NMAC.	
	[20.6.2.3101 NMAC, 20.6.2.3103 NMAC, Subsection C of 20.6.2.3109 NMAC]	

Operational Actions with Implementation Deadlines

#	Terms and Conditions
3.	Prior to discharging to the WWTP, leachfields, and subsurface irrigation system, the Permittee shall complete construction in accordance with the final construction plans and specifications submitted to NMED (dated October 2, 2020) by the professional engineer of record. The Permittee shall notify NMED at the commencement of construction to allow NMED personnel to be onsite for inspection during construction. [Subsections A and C of 20.6.2.1202 NMAC, Subsection C of 20.6.2.3109 NMAC, NMSA 1978, §§ 61-23-1 through 61-23-32]
4.	Within 30 days of completing construction of the WWTP, the Permittee shall submit record drawings to NMED that bear the seal and signature of a licensed New Mexico professional engineer (pursuant to the New Mexico Engineering and Surveying Practice Act and the rules promulgated under that authority) for the constructed WWTP, leachfields, and subsurface irrigation system. [Subsections A and C of 20.6.2.1202 NMAC, Subsection C of 20.6.2.3109 NMAC, NMSA 1978, §§ 61-23-1 through 61-23-32]
5.	Prior to discharging to the WWTP, the Permittee shall submit written notification to NMED stating the date the discharge is to commence. [Subsection A of 20.6.2.3107 NMAC, Subsection H of 20.6.2.3109 NMAC]
6.	Prior to discharging from the Facility to the WWTP, the Permittee shall install locking lids and a fence around the WWTP to control unauthorized access by the general public and animals. The Permittee shall submit documentation of access control installation consisting of a narrative statement describing the access control devices and date-stamped photographs to NMED in the next required periodic monitoring report. [Subsections B and C of 20.6.2.3109 NMAC, NMSA 1978, § 74-6-5.D]
7.	Prior to discharging from the Facility to the WWTP, the Permittee shall post signs indicating that the wastewater at the WWTP is not potable. The Permittee shall post signs at the WWTP entrance, on the fence surrounding the WWTP, and other areas where there is potential for public contact with wastewater. Posted signs shall be in English and Spanish and shall be legible during the term of this Discharge Permit.

#	Terms and Conditions
	The Permittee shall submit documentation demonstrating sign installation that consists of date stamped photographs to NMED in the next required periodic monitoring report.
	[Subsections B and C of 20.6.2.3109 NMAC, NMSA 1978, § 74-6-5.D]

Operating Conditions

#	Terms and Conditions
8.	The Permittee shall ensure that treated wastewater discharged from WWTP does not exceed the following discharge limit. Total Nitrogen: 10 mg/L [Subsection C of 20.6.2.3109 NMAC]
9.	The Permittee shall discharge treated wastewater to the subsurface irrigation system and the leachfields such that the amount of total nitrogen discharged does not exceed 200 pounds per acre in any 12-month period. The Permittee shall not adjust nitrogen content to account for volatilization or mineralization processes. The Permittee shall distribute wastewater evenly throughout the entire disposal area. [Subsection C of 20.6.2.3109 NMAC]
10.	The Permittee shall visually inspect the area above the subsurface irrigation system and leachfields (disposal systems) semi-annually to ensure proper maintenance. The Permittee shall correct any conditions that indicate damage to the disposal system. The Permittee shall ensure conditions corrected include erosion damage, animal activity/damage, woody shrubs (leachfields only), evidence of seepage, or any other condition indicating damage.
	The Permittee shall keep a log of the inspections that includes a date of the inspection, any findings and repairs, and the name of the inspector. The Permittee shall make the log available to NMED upon request.
	In the event of a failure of the disposal system, the Permittee shall implement the Contingency Plan set forth in this Discharge Permit.
	[Subsections A and D of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]
11.	The Permittee shall properly manage all solids generated by the treatment system to maintain effective operation of the system by removing solids as necessary and in

#	Terms and Conditions
	accordance with associated equipment manufacturer's specifications. The Permittee shall contain, transport and dispose of all solids removed from the treatment process in accordance with all local, state, and federal regulations.
	The Permittee shall maintain manifests for all solids transported from the Facility for off-site disposal. The manifests shall identify the name of the hauler, the date of off-site shipment, the volume of solids removed, the disposal method, and disposal location.
	[Subsection A of 20.6.2.3107 NMAC, Subsection C –f 20.6.2.3109 NMAC]
12.	The Permittee shall inspect the grease interceptors on a monthly basis and remove accumulated grease and settled solids as needed to prevent them from exiting the units.
	The Permittee shall create and maintain a log of all grease interceptor inspections which describes all findings, repairs, removals, the date of the inspection, and the name of the person responsible for the inspection. The Permittee shall make the log available to NMED upon request.
	The Permittee shall maintain a record of grease/solids removal and disposal, including date, volume of grease/solids removed, disposal method and disposal location. The Permittee shall make the record available to NMED upon request.
	[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]
13.	The Permittee shall inspect and clean the lift station as needed to prevent pump failure.
	The Permittee shall maintain a record of lift station inspections, repairs and cleanings. The Permittee shall make the record available to NMED upon request.
	[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]
14.	The Permittee shall utilize operators, certified by the State of New Mexico at the appropriate level pursuant to 20.7.4 NMAC, to operate the wastewater collection, treatment and disposal systems. A certified operator or a direct supervisee of a certified operator shall perform the operations and maintenance of all or any part of the wastewater system.
	The Permittee shall notify the NMED within 24 hours if at any time the Permittee no longer has a certified operator maintaining the system.
	[Subsection C of 20.6.2.3109 NMAC, 20.7.4 NMAC]

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B. MONITORING AND REPORTING

#	Terms and Conditions
15.	The Permittee shall conduct the monitoring, reporting, and other requirements listed below in accordance with the monitoring requirements of this Discharge Permit.
	[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]
16.	METHODOLOGY – Unless otherwise specified by this Discharge Permit, or approved in writing by NMED, the Permittee shall use sampling and analytical techniques that conform with the references listed in Subsection B of 20.6.2.3107 NMAC. [Subsection B of 20.6.2.3107 NMAC]
17.	Quarterly monitoring - The Permittee shall perform monitoring and other Permit required actions during the following periods and shall submit quarterly reports to NMED by the following due dates: • January 1 st through March 31 st – due by May 1 st ; • April 1 st through June 30 th – due by August 1 st ; • July 1 st through September 30 th – due by November 1 st ; and • October 1 st through December 31 st – due by February 1 st . [Subsection A of 20.6.2.3107 NMAC]

Monitoring Actions with Implementation Deadlines

#	Terms and Conditions
18.	 Prior to discharging from the Facility, the Permittee shall install the following flow meters. One totalizing flow meter installed on the influent line to measure the volume of wastewater received by the wastewater treatment system. One totalizing flow meter installed on the discharge line from the treatment system to the leachfields to measure the volume of treated wastewater discharged to the leachfields.
	The Permittee shall submit confirmation of meter installation, type, calibration, and locations prior to discharging from the Facility.
	[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]
19.	Prior to discharging from the WWTP, the Permittee shall submit a written groundwater monitoring well location proposal for NMED review and approval. The proposal shall

Terms and Conditions designate the installation locations of the monitoring well required by Condition 20 of this Discharge Permit. The proposal shall include, at a minimum, the following information. a) A map showing the proposed location of the monitoring well in relation to the boundary of the source it is intended to monitor. b) A written description of the specific location proposed for the monitoring well including the distance (in feet) and direction of the monitoring well from the edge of the source it is intended to monitor. Examples include: 35 feet north-northwest of the northern berm of the synthetically lined impoundment; 45 feet due south of the leachfield; and 30 feet southeast of the re-use area 150 degrees from north. c) A statement describing the groundwater flow direction beneath the Facility, and documentation and/or data supporting the determination. The Permittee must have NMED's approval of all monitoring well locations prior to their installation. [Subsection A of 20.6.2.3107 NMAC] 20. Prior to discharging to the WWTP, the Permittee shall install the following new monitoring well. One monitoring well (MW-1) located 20 to 50 feet hydrologically downgradient of the leachfields. The Permittee shall complete the well in accordance with the attachment titled Monitoring Well Guidance. Unless otherwise noted in this Discharge Permit, the requirement to install a monitoring well downgradient of a source is not contingent upon construction of the Facility, or discharge of wastewater from the Facility. [Subsection A of 20.6.2.3107 NMAC]

Groundwater Monitoring Conditions

#		Terms and Conditions
21	•	The Permittee shall perform quarterly groundwater sampling in the following groundwater monitoring wells and analyze the samples for TKN, NO ₃ -N, TDS and Cl. • MW-1
		The Permittee shall perform groundwater sample collection, preservation, transport and analysis according to the following procedures.

Terms and Conditions a) Measure the depth-to-most-shallow groundwater from the top of the well casing to the nearest one-hundredth of a foot. b) Purge three well volumes of water from the well prior to sample collection. c) Obtain samples from the well for analysis. d) Properly prepare, preserve and transport samples. e) Analyze samples in accordance with the methods authorized in this Discharge Permit. The Permittee shall submit the depth-to-most-shallow groundwater measurement and the laboratory analytical data results including the laboratory QA/QC summary report for the well to NMED in the quarterly monitoring reports. [Subsection A of 20.6.2.3107 NMAC] 22. NMED shall have the option to perform downhole inspections of all groundwater monitoring wells identified in this Discharge Permit. NMED shall establish the inspection date and provide at least a 60-day notice to the Permittee by certified mail. The Permittee shall remove any existing dedicated pumps at least 48 hours prior to NMED inspection to allow adequate settling time of sediment agitated from pump removal. Should the Permittee decide to install a pump monitoring well without a dedicated pump, the Permittee shall notify NMED at least 90 days prior to pump installation so that NMED can schedule a downhole well inspection prior to pump placement.

Facility Monitoring Conditions

[Subsections A and D of 20.6.2.3107 NMAC]

#	Terms and Conditions
23.	The Permittee shall measure the total monthly volume and calculate the daily average volume of wastewater received by the treatment facility each month using a totalizing flow meter located on the influent line to the WWTP. The Permittee shall submit the totalized influent volumes for each month and calculated daily average volumes to NMED in the quarterly monitoring reports.
	[Subsection A of 20.6.2.3107 NMAC, Subsections C and H of 20.6.2.3109 NMAC]
24.	The Permittee shall on a monthly basis measure the volume of treated domestic wastewater discharged from the treatment system to the leachfields during the period.

#	Terms and Conditions		
	To determine the discharge volume, the Permittee shall obtain readings from a totalizing flow meter located on the discharge line from the treatment system to the leachfields on a monthly basis and calculate the monthly and average daily discharge volume. The Permittee shall submit the monthly meter readings, calculated monthly discharge volumes, and average daily discharge volumes to NMED in the quarterly monitoring reports.		
	[Subsection A of 20.6.2.3107 NMAC, Subsections C and H of 20.6.2.3109 NMAC]		
25.	The Permittee shall on a monthly basis measure the volume of treated wastewater discharged from the treatment system to the subsurface irrigation system during the period. To determine the volume discharged to the subsurface irrigation system, the Permittee shall subtract the volume of treated wastewater discharged to the leachfields from the total volume of wastewater received by the treatment facility on a monthly basis and calculate the monthly and average daily volume discharged to the subsurface irrigation system. The Permittee shall submit the calculated monthly discharge volumes and average daily discharge volumes to NMED in the quarterly monitoring reports.		
	[Subsection A of 20.6.2.3107 NMAC, Subsections C and H of 20.6.2.3109 NMAC]		
26.	The Permittee shall visually inspect flow meters on a monthly basis for evidence of malfunction. The Permittee shall maintain a log of the inspections that includes a date of the inspection, findings and repairs, and the name of the inspector. The Permittee shall make the log available to NMED upon request. If a visual inspection indicates a flow meter is not functioning as required by this Discharge Permit, the Permittee shall repair or replace the meter within 30 days of discovery. For repaired meters, the Permittee shall submit a report to NMED with the next monitoring report following the repair that includes a description of the malfunction; a statement verifying the repair; and a flow meter field calibration report completed in accordance with the requirements of this Discharge Permit. For replacement meters, the Permittee shall submit a report to NMED with the next monitoring report following the replacement that includes a design schematic for the device and a flow meter field calibration report completed in accordance with the requirements of this Discharge Permit. [Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]		

#	Terms and Conditions		
27.	 The Permittee shall collect samples of treated wastewater from the discharge to the leachfields on a quarterly basis and analyze the samples for: TKN; NO₃-N; TDS; and CI. 		
	The Permittee shall ensure the samples are properly prepared, preserved, transported and analyzed in accordance with the methods authorized in this Discharge Permit. The Permittee shall submit the laboratory analytical data results, including the QA/QC summary and Chain of Custody, to NMED in the subsequent quarterly monitoring report. [Subsection A of 20.6.2.3107 NMAC, Subsections C and H of 20.6.2.3109 NMAC]		
28.	The Permittee shall submit copies of records of solids disposal, including the volume of solids removed and copies of all manifests for the previous calendar year, to NMED annually in the monitoring report due by August 1 st each year. [Subsection A of 20.6.2.3107 NMAC]		
29.	The Permittee shall submit copies of all records of grease removal and disposal to NMED in the quarterly monitoring reports. [Subsection A of 20.6.2.3107 NMAC]		

C. CONTINGENCY PLAN

#	Terms and Conditions
30.	In the event that groundwater monitoring indicates that groundwater exceeds a standard identified in Section 20.6.2.3103 NMAC, the Permittee shall collect a confirmatory sample from the monitoring well within 15 days of receipt of the initial sampling results to confirm the initial sampling results.
	Within 60 days of confirmation of groundwater contamination, the Permittee shall submit to NMED a Corrective Action Plan (CAP) that proposes, at a minimum, contaminant source control measures and an implementation schedule. The Permittee shall implement the CAP as approved by NMED.
	Once this groundwater exceedance response condition is invoked whether during the term of this Discharge Permit or after the term of this Discharge Permit and prior to the

Pilot Travel Center #1106 Albuquerque, **DP-1921** Draft: December 29, 2020

Terms and Conditions

completion of the Discharge Permit closure plan requirements, this condition shall apply until the Permittee has fulfilled the requirements of this condition and groundwater monitoring confirms for a minimum of eight (8) consecutive quarterly samples that groundwater does not exceed the standards of Section 20.6.2.3103 NMAC.

Violation of the groundwater standard beyond 180 days after the confirmation of groundwater contamination may cause NMED to require the Permittee to abate water pollution consistent with the requirements and provisions of Section 20.6.2.4101, Section 20.6.2.4103, Subsections C and E of 20.6.2.4106, Section 20.6.2.4107, Section 20.6.2.4108 and Section 20.6.2.4112 NMAC.

[Subsection A of 20.6.2.3107 NMAC, Subsection E of 20.6.2.3109 NMAC]

31. In the event that information available to NMED indicates that a well is not constructed in a manner consistent with the attachment titled *Monitoring Well Guidance*; contains insufficient water to effectively monitor groundwater quality; or is otherwise not completed in a manner that is protective of groundwater quality, the Permittee shall install a replacement well(s) within 120 days following notification from NMED.

The Permittee shall install replacement wells at locations approved by NMED prior to installation and shall complete replacement wells in accordance with the attachment Monitoring Well Guidance. The Permittee shall submit well construction and lithologic logs to NMED within 60 days following well completion.

The Permittee shall properly plug and abandon a monitoring well requiring replacement upon completion of the replacement monitoring well. The Permittee shall complete the well plugging and abandonment, and shall document the abandonment procedures, in accordance with the attachment Monitoring Well Guidance and all applicable local, state, and federal regulations. The Permittee shall submit a copy of the well abandonment documentation to NMED within 60 days following the replacement well completion.

[Subsection A of 20.6.2.3107 NMAC]

- 32. In the event that analytical results of a treated wastewater sample indicate an exceedance of the total nitrogen discharge limit set in this Discharge Permit, the Permittee shall collect and submit for analysis a second sample within 48 hours of the receipt of the initial sampling results. In the event the second sample results indicate an exceedance of the discharge limit, the Permittee shall implement the following contingencies.
 - a) Within 7 days of the second sample analysis date indicating exceedance of the discharge limit, the Permittee shall:
 - i) notify NMED that the Permittee is implementing the Contingency Plan; and

Terms and Conditions ii) submit a copy of the first and second analytical results indicating an exceedance b) The Permittee shall increase the frequency of total nitrogen wastewater sampling and analysis of treated wastewater to once per month. c) The Permittee shall examine the operation and maintenance log, required by the Record Keeping conditions of this Discharge Permit, for improper operational procedures. d) The Permittee shall conduct a physical inspection of the treatment system to detect abnormalities. The Permittee shall correct any abnormalities discovered. The Permittee shall submit a report to NMED detailing the corrections within 30 days of correction. e) In the event that any analytical results from monthly wastewater sampling indicate an exceedance of the total nitrogen discharge limit, the Permittee shall submit a Corrective Action Plan (CAP) to NMED for approval proposing to modify operational procedures and/or upgrade the treatment process to achieve the total nitrogen limit. The Permittee shall submit the CAP including a schedule for completion of corrective actions and within 90 days of receipt of the analytical results of the second sample indicating that the discharge limit is continuing to be exceeded. The Permittee shall initiate implementation of the CAP following approval by NMED. When analytical results from three consecutive months of wastewater sampling do not exceed the discharge limit, the Permittee may request NMED authorize a return to a quarterly monitoring frequency. [Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC] 33. In the event that the Permittee identifies failure of the subsurface irrigation system or leachfields, such as surfacing wastewater, the Permittee shall implement the following Contingency Plan. a) Within 24 hours following the discovered failure, the Permittee shall: i) Notify NMED of the failure in accordance with the notification requirements described in the Contingency Plan for unauthorized discharges; and ii) Restrict public access to the area. b) The Permittee shall conduct a physical inspection of the treatment and disposal system to identify additional potential failures and record them in the inspection log. c) The Permittee shall propose actions to address the failure and methods of correction

by submitting a Corrective Action Plan (CAP) to NMED for approval within 15 days following the discovered failure. The Permittee shall ensure the CAP includes a schedule for completion of corrective actions. The Permittee shall initiate

implementation of the CAP following NMED approval.

	#	Terms and Conditions	
		[Subsection A of 20.6.2.3107 NMAC, Subsection C of 20.6.2.3109 NMAC]	
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34. In the event that a release occurs that is not authorized under this Discharge Permit (commonly known as a "spill"), the Permittee shall take measures to mitigate damage from the unauthorized discharge and initiate the notifications and corrective actions required in Section 20.6.2.1203 NMAC and summarized below.

Within <u>24 hours</u> following discovery of the unauthorized discharge, the Permittee shall verbally notify NMED and provide the following information.

- a) The name, address, and telephone number of the person or persons in charge of the Facility, as well as of the owner and/or operator of the Facility.
- b) The name and address of the Facility.
- c) The date, time, location, and duration of the unauthorized discharge.
- d) The source and cause of unauthorized discharge.
- e) A description of the unauthorized discharge, including its estimated chemical composition.
- f) The estimated volume of the unauthorized discharge.
- g) Any actions taken to mitigate immediate damage from the unauthorized discharge.

Within <u>one week</u> following discovery of the unauthorized discharge, the Permittee shall submit written notification to NMED providing the information listed above and any pertinent updates.

Within <u>15 days</u> following discovery of the unauthorized discharge, the Permittee shall submit a Corrective Action Plan (CAP) to NMED describing any corrective actions previously taken and corrective actions to be taken relative to the unauthorized discharge. The CAP shall include the following information.

- a) A description of proposed actions to mitigate damage from the unauthorized discharge.
- b) A description of proposed actions to prevent future unauthorized discharges of this nature.
- c) A schedule for completion of proposed actions.

In the event that the unauthorized discharge causes or may with reasonable probability cause water pollution in excess of the standards and requirements of Section 20.6.2.4103 NMAC, and the water pollution will not be abated within 180 days after notice is required to be given pursuant to Paragraph (1) of Subsection A of 20.6.2.1203 NMAC, NMED may require the Permittee to abate water pollution pursuant to Sections 20.6.2.4000 through 20.6.2.4115 NMAC.

#	Terms and Conditions		
	The Permittee shall not construe anything in this condition as relieving them of the obligation to comply with all requirements of Section 20.6.2.1203 NMAC.		
	[20.6.2.1203 NMAC]		
35.	In the event that NMED or the Permittee identifies any failures of the discharge plan, i.e., the application, or this Discharge Permit not specifically noted herein, NMED may require the Permittee to submit a Corrective Action Plan and a schedule for completion of corrective actions to address the failure(s). Additionally, NMED may require a discharge permit modification to achieve compliance with 20.6.2 NMAC.		
	[Subsection A of 20.6.2.3107 NMAC, Subsection E of 20.6.2.3109 NMAC]		

D. CLOSURE PLAN

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36. The Permittee shall perform the following closure measures in the event the Facility, or a component of the Facility, is proposed to be permanently closed.

Within <u>90 days</u> of ceasing to discharge to the treatment system, the Permittee shall complete the following closure measures.

- a) Plug the line leading to the treatment system so that a discharge can no longer occur.
- b) Drain wastewater in the system components and disposed of it in accordance with all local, state, and federal regulations or discharged from the system to the subsurface irrigation system as authorized by this Discharge Permit.
- c) Contain, transport, and dispose of solids removed from the treatment system in accordance with all local, state, and federal regulations, including 40 CFR Part 503. The Permittee shall maintain a record of all solids transported for off-site disposal.

Within <u>180 days</u> of ceasing to discharge to the treatment system (or unit), the Permittee shall complete the following closure measures.

- a) Remove all lines leading to and from the treatment system, or permanently plug and abandon them in place.
- b) Remove or demolish all treatment system components, and re-grade the area with suitable fill to blend with surface topography, promote positive drainage and prevent ponding.

The Permittee shall continue groundwater monitoring until the Permittee meets the requirements of this condition and groundwater monitoring confirms for a minimum of eight consecutive quarterly groundwater sampling events that groundwater does not

Terms and Conditions

exceed the standards of Section 20.6.2.3103 NMAC. This period is referred to as "post-closure."

If at any time monitoring results show an exceedance of a groundwater quality standard in Section 20.6.2.3103 NMAC, the Permittee shall implement the Contingency Plan required by this Discharge Permit.

Following notification from NMED that the Permittee may cease post-closure monitoring, the Permittee shall plug and abandon the monitoring well(s) in accordance with the attachment Monitoring Well Guidance.

When the Permittee has met all closure and post-closure requirements and verified appropriate actions with date stamped photographic evidence or an associated NMED inspection, the Permittee may submit to NMED a written request, including photographic evidence, for termination of the Discharge Permit.

[Subsection A of 20.6.2.3107 NMAC, Subsection D of 20.6.2.4103 NMAC, 40 CFR Part 503]

E. GENERAL TERMS AND CONDITIONS

Terms and Conditions

- 37. RECORD KEEPING The Permittee shall maintain a written record of the following:
 - Information and data used to complete the application for this Discharge Permit;
 - Information, data, and documents demonstrating completion of closure activities;
 - Any releases (commonly known as "spills") not authorized under this Discharge Permit and reports submitted pursuant to 20.6.2.1203 NMAC;
 - The operation, maintenance, and repair of all facilities/equipment used to treat, store or dispose of wastewater;
 - Facility record drawings (plans and specifications) showing the actual construction of the Facility and bear the seal and signature of a licensed New Mexico professional engineer;
 - Copies of logs, inspection reports, and monitoring reports completed and/or submitted to NMED pursuant to this Discharge Permit;
 - The volume of wastewater or other wastes discharged pursuant to this Discharge Permit;
 - Groundwater quality and wastewater quality data collected pursuant to this Discharge Permit;

Terms and Conditions • Copies of construction records (well log) for all sampled groundwater monitoring wells pursuant to this Discharge Permit; • The maintenance, repair, replacement or calibration of any monitoring equipment or flow measurement devices required by this Discharge Permit; and Data and information related to field measurements, sampling, and analysis conducted pursuant to this Discharge Permit, including: the dates, location and times of sampling or field measurements; o the name and job title of the individuals who performed each sample collection or field measurement; o the sample analysis date of each sample o the name and address of the laboratory, and the name of the signatory authority for the laboratory analysis; o the analytical technique or method used to analyze each sample or collect each field measurement; o the results of each analysis or field measurement, including raw data; o the results of any split, spiked, duplicate or repeat sample; and o a copy of the laboratory analysis chain-of-custody as well as a description of the quality assurance and quality control procedures used. The Permittee shall maintain the written record at a location accessible to NMED during a Facility inspection for the lifetime of the Discharge Permit. The Permittee shall make the record available to the department upon request. [Subsections A and D of 20.6.2.3107 NMAC] 38. SUBMITTALS – The Permittee shall submit both a paper copy and an electronic copy of all notification and reporting documents required by this Discharge Permit, e.g., monitoring reports. The paper and electronic documents shall be submitted to the NMED Permit Contact identified on the Permit cover page. [Subsection A of 20.6.2.3107 NMAC] 39. INSPECTION and ENTRY – The Permittee shall allow NMED to inspect the Facility and its operations that are subject to this Discharge Permit and the WQCC regulations. NMED may upon presentation of proper credentials, enter at reasonable times upon or through any premises in which a water contaminant source is located or in which any maintained records required by this Discharge Permit, the regulations of the federal government, or the WQCC are located. The Permittee shall allow NMED to have access to and reproduce for their use any copy of the records, and to perform assessments, sampling or monitoring during an inspection

#	Terms and Conditions		
	for the purpose of evaluating compliance with this Discharge Permit and the WQCC regulations.		
	No person shall construe anything in this Discharge Permit as limiting in any way the inspection and entry authority of NMED under the WQA, the WQCC Regulations, or any other local, state or federal regulations.		
	[Subsection D of 20.6.2.3107 NMAC, NMSA 1978, §§ 74-6-9.B and 74-6-9.E]		
40.	DUTY to PROVIDE INFORMATION - The Permittee shall, upon NMED's request, allow for NMED's inspection/duplication of records required by this Discharge Permit and/of furnish to NMED copies of such records.		
	[Subsection D of 20.6.2.3107 NMAC]		
41.	MODIFICATIONS and/or AMENDMENTS – In the event the Permittee proposes a change to the Facility or the Facility's discharge that would result in a change in the volume discharged; the location of the discharge; or in the amount or character of water contaminants received, treated or discharged by the Facility, the Permittee shall notify NMED prior to implementing such changes. The Permittee shall obtain NMED's approval (which may require modification of this Discharge Permit) prior to implementing such changes.		
	[Subsection C of 20.6.2.3107 NMAC, Subsections E and G of 20.6.2.3109 NMAC]		
42.	PLANS and SPECIFICATIONS — In the event the Permittee proposes to construct a wastewater system or change a process unit of an existing system such that the quantity or quality of the discharge will change substantially from that authorized by this Discharge Permit, the Permittee shall submit construction plans and specifications of the proposed system or process unit to NMED for approval prior to the commencement of construction.		
	In the event the Permittee implements changes to the wastewater system authorized by this Discharge Permit that result in only a minor effect on the character of the discharge, the Permittee shall report such changes (including the submission of record drawings where applicable) to NMED prior to implementation.		
	[Subsections A and C of 20.6.2.1202 NMAC, NMSA 1978, §§ 61-23-1 through 61-23-32]		
43.	CIVIL PENALTIES - Any violation of the requirements and conditions of this Discharge Permit, including any failure to allow NMED staff to enter and inspect records or facilities, or any refusal or failure to provide NMED with records or information, may subject the		

Terms and Conditions

Permittee to a civil enforcement action. Pursuant to WQA 74-6-10(A) and (B), such action may include a compliance order requiring compliance immediately or in a specified time, assessing a civil penalty, modifying or terminating the Discharge Permit, or any combination of the foregoing; or an action in district court seeking injunctive relief, civil penalties, or both. Pursuant to WQA 74-6-10(C) and 74-6-10.1, civil penalties of up to \$15,000 per day of noncompliance may be assessed for each violation of the WQA 74-6-5, the WQCC Regulations, or this Discharge Permit, and civil penalties of up to \$10,000 per day of noncompliance may be assessed for each violation of any other provision of the WQA, or any regulation, standard, or order adopted pursuant to such other provision. In any action to enforce this Discharge Permit, the Permittee waives any objection to the admissibility as evidence of any data generated pursuant to this Discharge Permit.

[20.6.2.1220 NMAC, NMSA 1978, §§ 74-6-10 and 74-6-10.1]

44. CRIMINAL PENALTIES – No person shall:

- Make any false material statement, representation, certification or omission of material fact in an application, record, report, plan or other document filed, submitted or maintained under the WQA;
- Falsify, tamper with or render inaccurate any monitoring device, method or record maintained under the WQA; or
- Fail to monitor, sample or report as required by a permit issued pursuant to a state or federal law or regulation.

Any person who knowingly violates or knowingly causes or allows another person to violate the requirements of this condition is guilty of a fourth-degree felony and shall be sentenced in accordance with the provisions of NMSA 1978, § 31-18-15. Any person who is convicted of a second or subsequent violation of the requirements of this condition is guilty of a third-degree felony and shall be sentenced in accordance with the provisions of NMSA 1978, § 31-18-15. Any person who knowingly violates the requirements of this condition or knowingly causes another person to violate the requirements of this condition and thereby causes a substantial adverse environmental impact is guilty of a third-degree felony and shall be sentenced in accordance with the provisions of NMSA 1978, § 31-18-15. Any person who knowingly violates the requirements of this condition and knows at the time of the violation that he is creating a substantial danger of death or serious bodily injury to any other person is guilty of a second degree felony and shall be sentenced in accordance with the provisions of NMSA 1978, § 31-18-15.

[20.6.2.1220 NMAC, NMSA 1978, §§ 74-6-10.2.A through 74-6-10.2.F]

#	Terms and Conditions		
45.	COMPLIANCE with OTHER LAWS - Nothing in this Discharge Permit shall be construed in any way as relieving the Permittee of the obligation to comply with any other applicable federal, state, and/or local laws, regulations, zoning requirements, nuisance ordinances, permits or orders.		
	[NMSA 1978, § 74-6-5.L]		
46.	RIGHT to APPEAL - The Permittee may file a petition for review before the WQCC on this Discharge Permit. Such petition shall be in writing to the WQCC within thirty days of the receipt of postal notice of this Discharge Permit and shall include a statement of the issues raised and the relief sought. Unless the Permittee files a timely petition for review, the decision of NMED shall be final and not subject to judicial review.		
	[20.6.2.3112 NMAC, NMSA 1978, § 74-6-5.0]		
47.	 TRANSFER of DISCHARGE PERMIT - Prior to the transfer of any ownership, control, or possession of this Facility or any portion thereof, the Permittee shall: Notify the proposed transferee in writing of the existence of this Discharge Permit; Include a copy of this Discharge Permit with the notice; and Deliver or send by certified mail to NMED a copy of the notification and proof that the proposed transferee has received such notification. The Permittee shall continue to be responsible for any discharge from the Facility, until both ownership and possession of the Facility have been transferred to the transferee. [20.6.2.3111 NMAC] 		
48.			

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	pay all permit fees assessed by NMED. NMED shall suspend or terminate an approved Discharge Permit if the Permittee fails to remit an installment payment by its due date.	
	[Subsection F of 20.6.2.3114 NMAC, NMSA 1978, § 74-6-5.K]	





New Mexico Environment Department Ground Water Quality Bureau Discharge Permit Summary

Facility Information

Facility Name Pilot Travel Center #1106 Albuquerque

Discharge Permit Number DP-1921

Legally Responsible PartyJoey Cupp, Director, Environmental

Travel Pilot Centers, LLC 5508 Lonas Drive Knoxville, TN 37909 (865) 474-2826

Treatment, Disposal and Site Information

Primary Waste Type Domestic
Facility Type Truck Stop

Treatment Methods

Туре	Designation	Description & Comments
Wastewater Treatment System	MABR Treatment Unit	Fluence Corporation's packaged MABR – Aspiral™ M. The reactor tank is composed of weathering carbon steel SPA-H, steel thickness of 1/6-1/8 painted with immersed st\ructure grade C4 system and include sacrificial anodes for corrosion protection. Container dimensions are 40′ HC open top with CSC, 8′ wide and 9′6″ height.
Grease Interceptors	Grease Interceptors	Two, 1,500-gallon Park USA GT-1500 units.

Discharge Locations

Туре	Designation	Description & Comments
Septic Tank	Septic Tank	10,000-gallon capacity. Xerxes, 8' diameter fiberglass underground septic tank.
Holding Tank	Equalization Tank	5,000-gallon capacity. Xerxes, 8' diameter fiberglass underground equalization tank
Holding Tank	Sludge Holding Tank	5-000-gallon capacity. Xerxes, 8' diameter fiberglass underground sludge holding tank.
Holding Tank	Effluent Tank	1,500-gallon capacity. Xerxes, 6' diameter fiberglass underground effluent tank.
Subsurface Irrigation	SSIS	To be determined.
Leachfield	North Leachfield	24, 100' long disposal trenches utilizing Infiltrator Water Technologies, Standard Quick 4 Plus chambers.
Leachfield	South Leachfield	24, 100' long disposal trenches utilizing Infiltrator Water Technologies, Standard Quick 4 Plus chambers.



New Mexico Environment Department Ground Water Quality Bureau Discharge Permit Summary

Flow Metering Locations

Туре	Designation	Description & Comments
Totalizing Flow Meter	Influent Meter-1	Measure influent into the MABR Treatment Unit
Totalizing Flow Meter	Effluent Meter-2	Measure effluent to the South and North leachfields.
Totalizing Flow Meter	Effluent Irrigation Meter-1	Measure effluent to the subsurface irrigation system.

Ground Water Monitoring Locations

Туре	Designation	Description & Comments
Monitoring Well	MW-1	Located 20 to 50 feet hydrologically downgradient of the leachfields. To be installed.

Depth-to-Ground Water 104 feet **Total Dissolved Solids (TDS)** 344 mg/L

Permit Information

Current Action

Application Received
Public Notice Published
Permit Issued (Effective Date)
Permitted Discharge Volume

Original Permit Issuance

October 5, 2020 [not yet published] [effective date] 10,000 gallons per day

NMED Contact Information

Mailing Address Ground Water Quality Bureau

P.O. Box 5469

Santa Fe, New Mexico 87502-5469

GWQB Telephone Number (505) 827-2900

NMED Lead Staff Avery Young Lead Staff Telephone Number (505) 699-8564

Lead Staff Email avery.young@state.nm.us

NEW MEXICO ENVIRONMENT DEPARTMENT GROUND WATER QUALITY BUREAU MONITORING WELL CONSTRUCTION AND ABANDONMENT GUIDELINES

<u>Purpose:</u> These guidelines identify minimum construction and abandonment details for installation of water table monitoring wells under groundwater Discharge Permits issued by the NMED's Ground Water Quality Bureau (GWQB) and Abatement Plans approved by the GWQB. Proposed locations of monitoring wells required under Discharge Permits and Abatement Plans and requests to use alternate installation and/or construction methods for water table monitoring wells or other types of monitoring wells (e.g., deep monitoring wells for delineation of vertical extent of contaminants) must be submitted to the GWQB for approval prior to drilling and construction.

General Drilling Specifications:

- 1. All well drilling activities must be performed by an individual with a current and valid well driller license issued by the State of New Mexico in accordance with 19.27.4 NMAC. Use of drillers with environmental well drilling experience and expertise is highly recommended.
- 2. Drilling methods that allow for accurate determinations of water table locations must be employed. All drill bits, drill rods, and down-hole tools must be thoroughly cleaned immediately prior to the start of drilling. The borehole diameter must be drilled a minimum of 4 inches larger than the casing diameter to allow for the emplacement of sand and sealant.
- 3. After completion, the well should be allowed to stabilize for a minimum of 12 hours before development is initiated.
- 4. The well must be developed so that formation water flows freely through the screen and is not turbid, and all sediment and drilling disturbances are removed from the well.

Well Specifications (see attached monitoring well schematic):

- 5. Schedule 40 (or heavier) polyvinyl chloride (PVC) pipe, stainless steel pipe, carbon steel pipe, or pipe of an alternate appropriate material that has been approved for use by NMED must be used as casing. The casing must have an inside diameter not less than 2 inches. The casing material selected for use must be compatible with the anticipated chemistry of the groundwater and appropriate for the contaminants of interest at the facility. The casing material and thickness selected for use must have sufficient collapse strength to withstand the pressure exerted by grouts used as annular seals and thermal properties sufficient to withstand the heat generated by the hydration of cement-based grouts. Casing sections may be joined using welded, threaded, or mechanically locking joints; the method selected must provide sufficient joint strength for the specific well installation. The casing must extend from the top of the screen to at least one foot above ground surface. The top of the casing must be fitted with a removable cap, and the exposed casing must be protected by a locking steel well shroud. The shroud must be large enough in diameter to allow easy access for removal of the cap. Alternatively, monitoring wells may be completed below grade. In this case, the casing must extend from the top of the screen to 6 to 12 inches below the ground surface; the monitoring wells must be sealed with locking, expandable well plugs; a flush-mount, watertight well vault that is rated to withstand traffic loads must be emplaced around the wellhead; and the cover must be secured with at least one bolt. The vault cover must indicate that the wellhead of a monitoring well is contained within the vault.
- 6. A 20-foot section (maximum) of continuous-slot, machine slotted, or other manufactured PVC or stainless steel well screen or well screen of an alternate appropriate material that has been approved for use by NMED must be installed across the water table. Screens created by cutting slots into solid casing with saws or other tools must not be used. The screen material selected for use must be compatible with the anticipated chemistry of the ground water and appropriate for the contaminants of interest at the facility. Screen sections may be joined using welded, threaded, or mechanically

locking joints; the method selected must provide sufficient joint strength for the specific well installation and must not introduce constituents that may reasonably be considered contaminants of interest at the facility. A cap must be attached to the bottom of the well screen; sumps (i.e., casing attached to the bottom of a well screen) should not be installed. The bottom of the screen must be installed no more than 15 feet below the water table; the top of the well screen must be positioned not less than 5 feet above the water table. The well screen slots must be appropriately sized for the formation materials and should be selected to retain 90 percent of the filter pack. A slot size of 0.010 inches is generally adequate for most installations.

- 7. Casing and well screen must be centered in the borehole by placing centralizers near the top and bottom of the well screen.
- 8. A filter pack must be installed around the screen by filling the annular space from the bottom of the screen to 2 feet above the top of the screen with clean silica sand. The filter pack must be properly sized to prevent fine particles in the formation from entering the well; clean medium to coarse silica sand is generally adequate as filter pack material for 0.010-inch slotted well screen. For wells deeper than 30 feet, the sand must be emplaced by a tremmie pipe. The well should be surged or bailed to settle the filter pack and additional sand added, if necessary, before the bentonite seal is emplaced.
- 9. A bentonite seal must be constructed immediately above the filter pack by emplacing bentonite chips or pellets (3/8-inch in size or smaller) in a manner that prevents bridging of the chips/pellets in the annular space. The bentonite seal must be 3 feet in thickness and hydrated with clean water. Adequate time should be allowed for expansion of the bentonite seal before installation of the annular space seal.
- 10. The annular space above the bentonite seal must be sealed with cement grout or a bentonite-based sealing material acceptable to the State Engineer pursuant to 19.27.4 NMAC. A tremmie pipe must be used when placing sealing materials at depths greater than 20 feet below the ground surface. Annular space seals must extend from the top of the bentonite seal to the ground surface (for wells completed above grade) or to a level 3 to 6 inches below the top of casing (for wells completed below grade).
- 11. For monitoring wells finished above grade, a concrete pad (2-foot minimum radius, 4-inch minimum thickness) must be poured around the shroud and wellhead. The concrete and surrounding soil must be sloped to direct rainfall and runoff away from the wellhead. The installation of steel posts around the well shroud and wellhead is recommended for monitoring wells finished above grade to protect the wellhead from damage by vehicles or equipment. For monitoring wells finished below grade, a concrete pad (2-foot minimum radius, 4-inch minimum thickness) must be poured around the well vault and wellhead. The concrete and surrounding soil must be sloped to direct rainfall and runoff away from the well vault.

Abandonment:

- 12. Approval for abandonment of monitoring wells used for ground water monitoring in accordance with Discharge Permit and Abatement Plan requirements must be obtained from NMED prior to abandonment.
- 13. Well abandonment must be accomplished by removing the well casing and placing neat cement grout, bentonite-based plugging material, or other sealing material approved by the State Engineer for wells that encounter water pursuant to 19.27.4 NMAC from the bottom of the borehole to the ground surface using a tremmie pipe. If the casing cannot be removed, neat cement grout, bentonite-based plugging material, or other sealing material approved by the State Engineer must be placed in the well using a tremmie pipe from the bottom of the well to the ground surface.
- 14. After abandonment, written notification describing the well abandonment must be submitted to the NMED. Written notification of well abandonment must consist of a copy of the well plugging record submitted to the State Engineer in accordance with 19.27.4 NMAC, or alternate documentation containing the information to be provided in a well plugging record required by the State Engineer as specified in 19.27.4 NMAC.

<u>Deviation from Monitoring Well Construction and Abandonment Requirements:</u> Requests to construct water table monitoring wells or other types of monitoring wells for groundwater monitoring under groundwater Discharge Permits or Abatement Plans in a manner that deviates from the specified requirements must be submitted in writing to the GWQB. Each request must state the rationale for the proposed deviation from these requirements and provide detailed evidence supporting the request. The GWQB will approve or deny requests to deviate from these requirements in writing.

